



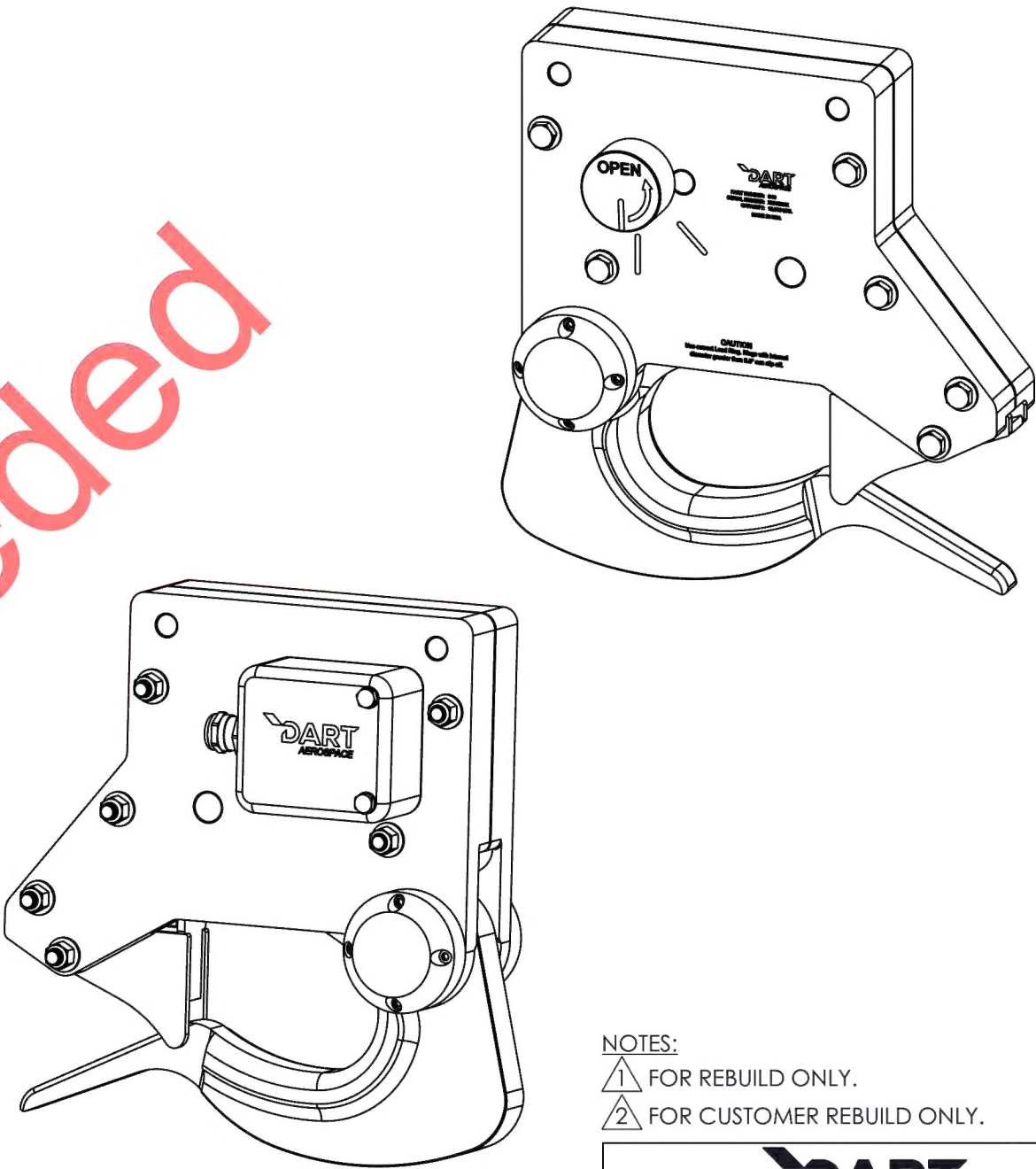




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
SEE ATTACHED DEVIATION

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			C10-1	1	SIDE PLATE SOLENOID SIDE			2
			C10-2	1	SIDE PLATE - MRK			2
			C10-3	1	LOAD BEAM BUMPER			3
			C10-4	1	LOCK	4140/4142		3
			C10-4-2	1	LOWER LOCK ROLLER	4140 /4142		3
			C10-4-3	1	UPPER LOCK ROLLER	4140/4142		3
			C10-4-4	1	UPPER LOCK ROLLER SHAFT	4140/4142		3
			C10-4-5	1	LOWER LOCK ROLLER SHAFT	4140/4142		3
		B/O	C10-4-6	1	LOCK SPRING	STEEL	Ø1/4 X Ø.029 WIRE X 2-1/2, 3.36 LB MAX, 1.27 LBS/IN (MCMASTER-CARR #9654K115)	3
		B/O	C10-4-7	1	SPRING RETAINING PIN	STEEL	Ø3/16 X 1-1/8 (MCMASTER-CARR #98381A511)	3
			C10-4-8	2	LOCK BUSHING	4140/4142		3
		B/O	C10-4-9	1	UPPER ROLLER DU BEARING		(06DU12)	3
		B/O	C10-4-10	2	SPRING ANCHOR SPRING PIN	STEEL	Ø3/16 X 1-3/4 (MCMASTER-CARR #90692A729)	3
			C10-4-11	1	LOCK SHAFT	4140/4142		3
		B/O	C3-12-6	2	LOCK ROLLER RETAINING RING	STEEL	Ø 3/8 (KAMAN #5100-0037-SPP)	3
		B/O	C45-12-6	2	RETAINING RING	STEEL	(KAMAN #N1400-0050)	3
			C10-5A	1	LOAD BEAM ASSEMBLY			2
		B/O	C10-7	3	LOCATING PIN	STEEL	Ø1/4 X 1-1/4 (MCMASTER-CARR #98381A544)	3
			C10-8	2	TRUNNION BUSHING	4140/4142		2
			C10-9-1	1	LATCH	4140/4142		3
		B/O	C10-9-2	1	LATCH BEARING		(TORRINGTON #6NBC914YZP)	3
			C10-9-4	2	LATCH SHAFT BUSHING	4140/4142		3
			C10-9-5	1	LATCH SHAFT	4140/4142		3
		B/O	C10-9-6	2	LATCH RETURN SPRING	STEEL	Ø3/8 X Ø.035 WIRE X 2.25, 3.80 LB MAX, 1.25 LBS/IN (MCMASTER-CARR #9654K193)	3
			C10-10-1	1	ACTUATOR SHAFT	4140/4142		3
		B/O	C10-10-2	1	ACTUATOR PIN	STEEL	Ø1/4 X 1-1/2 (MCMASTER-CARR #98296A930)	3
		B/O	C10-10-3	2	ACTUATOR BUSHING		(KAMAN #SF-2028-10)	3
			C10-11	1	MANUAL RELEASE KNOB	6061		2
			C10-12	1	SOLENOID ASSY			2
			C45-8-4	1	SOLENOID COVER GASKET	BLENDED RUBBER		2
			C45-8-5	1	SOLENOID COVER	6061		2
			C10-21-1	2	CLOCK SPRING	301		2
			C10-21-2	2	SPRING COVER	6061		2
		B/O	C10-21-4	8	LOCK WASHER	STEEL	# 10 LOCK WASHER (MCMASTER-CARR #91102A740)	2
			C10-22	3	BUMPER	POLYURETHANE		3
			C10-23	1	KEEPER WELDMENT			2
			C10-23-1	1	KEEPER SPACER	1018/1020		2
		B/O	C10-23-2	1	KEEPER SPRING	SS 303	Ø.102 X 12 DENDOFF	2
			C10-23-3	2	KEEPER BUSHING	SINTERED BRONZE	(SYMMCO SS-2028-32) MODIFIED	2
		B/O	C10-41	1	STRAIN RELIEF CONNECTOR	BRASS	1/2 TRADE SIZE (MCMASTER-CARR #6907K14)	2
		B/O	188-FPSS-1032-1/4	2	SET SCREW	S.S.	10-32 X 1/4 (MCMASTER-CARR #94355A330)	3
		B/O	188-FPSS-1/4 20-3/8	2	SET SCREW	S.S.	1/4-20 (MCMASTER-CARR #92313A535)	2
		B/O	188-SHCS-1032-3/4	8	BOLT	STEEL	SHCS 10-32 X 3/4 (MCMASTER-CARR #90128A945)	2
		B/O	AN4-23A	2	BOLT	STEEL	1/4-28 X 2.41	2
		B/O	AN6-31A	6	BOLT	STEEL	3/8-24	2
		B/O	AN960-416	3	WASHER	STEEL	1/4	2
		B/O	AN960-416L	2	WASHER	STEEL	Ø1/4	2
		B/O	AN960-616L	12	WASHER	STEEL	Ø3/8	2
		B/O	MS21083N4	2	NYLOCK NUT	STEEL	1/4-28 LOW PROFILE	2
		B/O	MS21044N6	6	LOCK NUT	STEEL	3/8-24	2
		B/O	MS27039-4-08	1	SCREW	STEEL	1/4-28 X 17/32	2
			600.1309	1	LABEL 	ALUMINUM		N/S
			600.1309-A	1	LABEL 	ALUMINUM		N/S
		B/O	600.1347	1	C10 WARNING LABEL 	VINYL	SIGNS NOW	N/S
		B/O	C2-14-2	2	LABEL RIVETS 	18-8 S.S.	NO 4 (MCMASTER-CARR #91654A106)	N/S
		B/O	EL-PLUG-M	1	MALE PLUG	PE High Density	(MCMASTER-CARR #7216K5)	2
			EL314-SJTOW	1	ELECTRICAL WIRE 3/14 SJTOW			2
		B/O	32448	2	16-14 AWG KNIFE CONNECTOR		(ALLIED ELECTRONICS 32448)	2
		B/O		1	HEAT SHRINK TUBE	RUBBER	(MCMASTER-CARR #2595K2)	N/S

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1	14-0219	DELETED C2-14-2, 600.1309, 600.1347.	11/20/2014	RJC	JAG
2	15-0072	UPDATED TO NEW DRAFTING STANDARDS. ADDED C2-14-2, 600.1309, 600.1309-A, 600.1347, 32448 DELETED. CH'D P/N'S WAS C10-4-12 IS C3-12-6, WAS C10-4-13 IS C45-12-6, WAS C10-12-2 IS MS21083N4, WAS C10-24 IS AN960-616L. ADDED REBUILD ONLY NOTES. ADDED ENGRAVING NOTES AND DETAILS.	3/31/2015	DPD	JAG
3	15-0254	C10-9-3 REPLACED W/ 188-FPSS-1032-1/4. C10-11-1 REPLACED W/ 188-FPSS-1/4 20-3/8. C10-21-3 REPLACED W/ 188-SHCS-1032-3/4. 32446 REPLACED W/ 32448.	9/9/2015	DPD	JAG



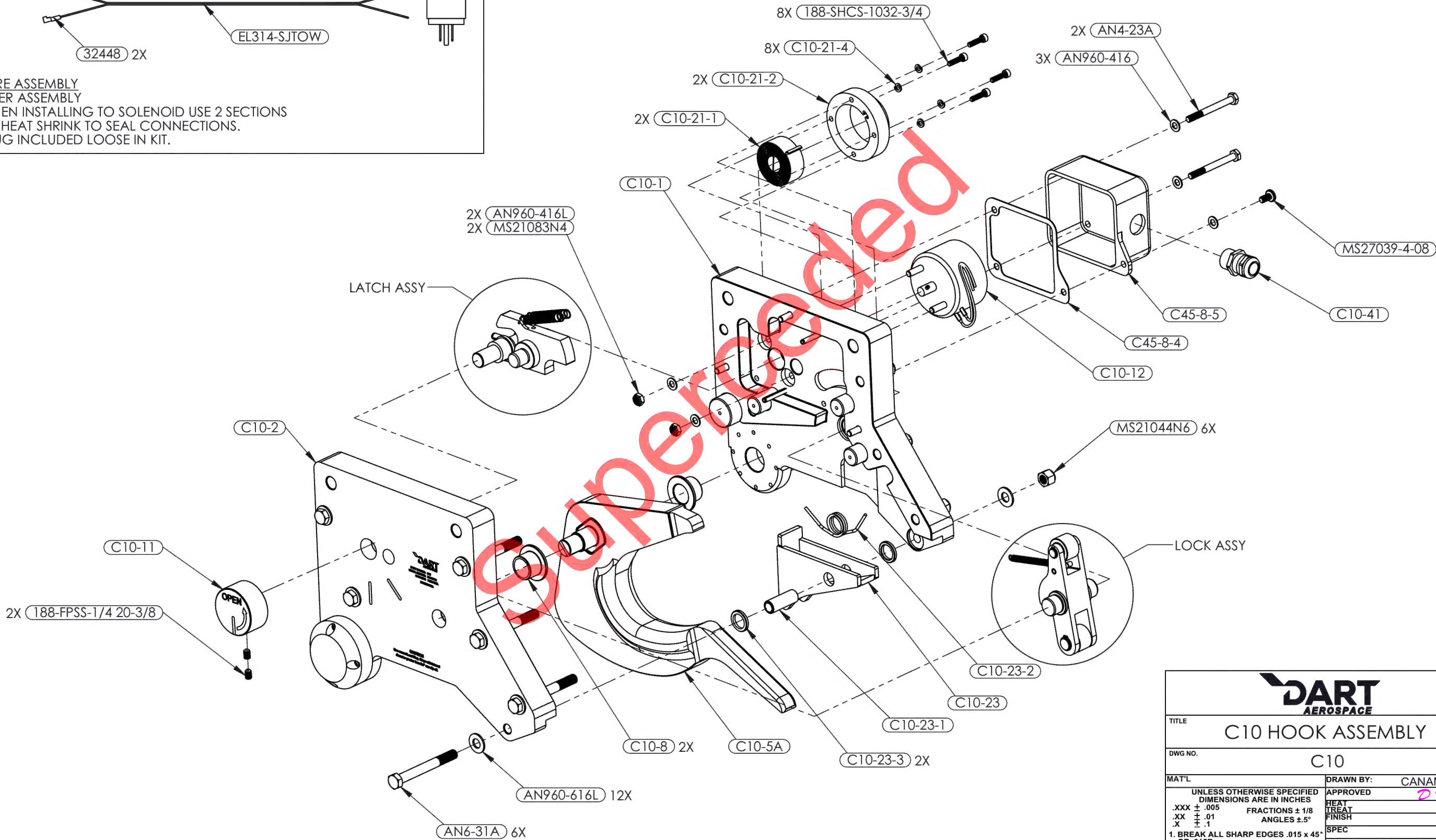
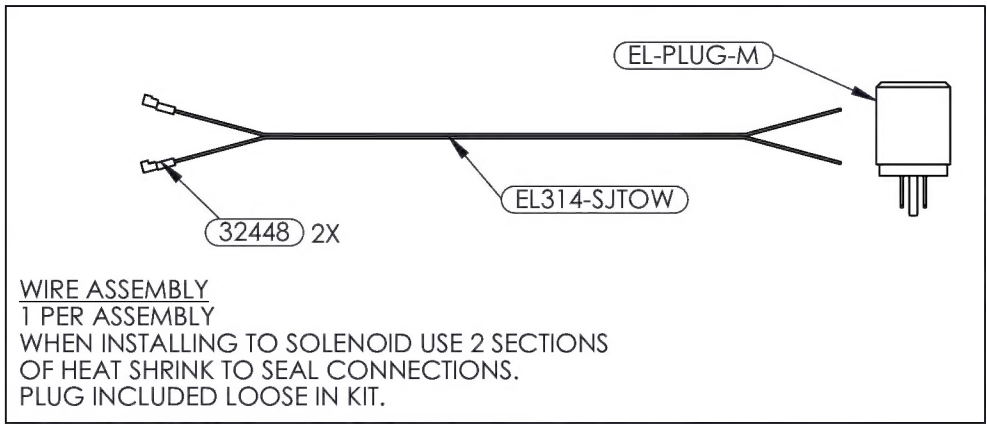
- NOTES:
-  FOR REBUILD ONLY.
-  FOR CUSTOMER REBUILD ONLY.

	
TITLE C10 HOOK ASSEMBLY	
DWG NO. C10	REV 3
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1	DRAWN BY: CANAM APPROVED  TREAT FINISH SPEC 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING
SCALE 1:4	DATE SHEET 1 OF 4

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REVISIONS			DATE	INITIAL	APPROVED
REV	ECR	DESCRIPTION			
1	14-0219	DELETED C2-14-2, 600.1309, 600.1347.	11/20/2014	RJC	JAG

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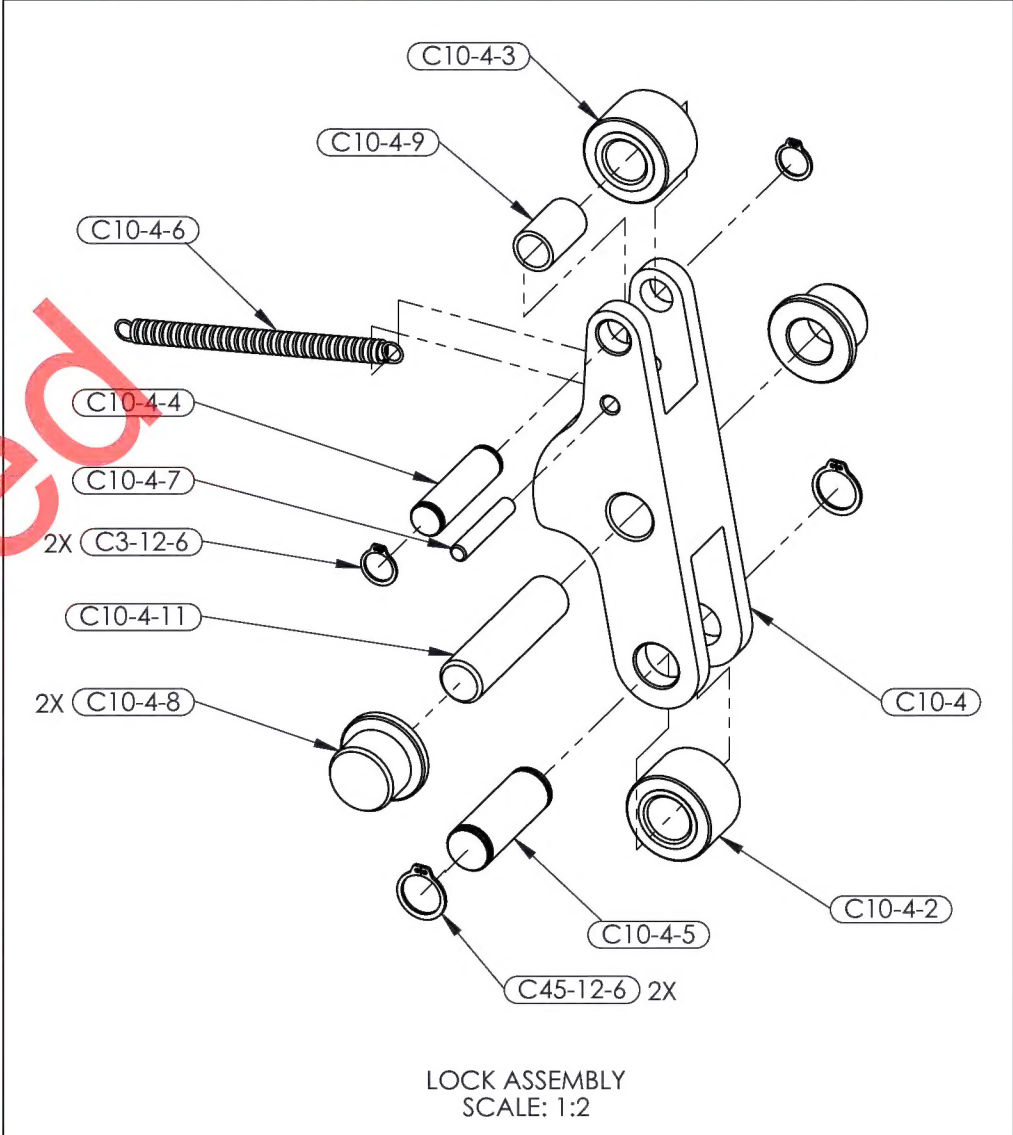
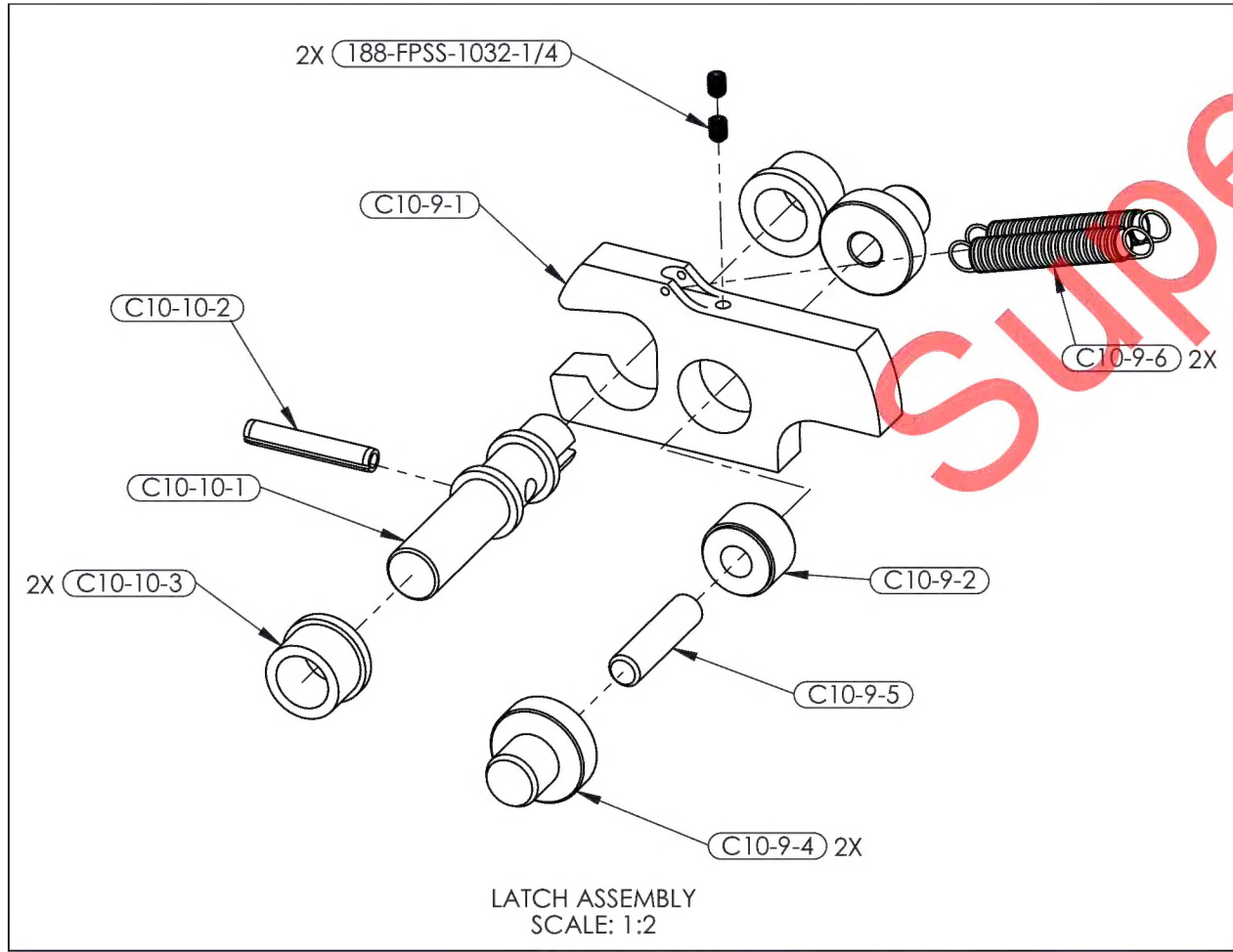
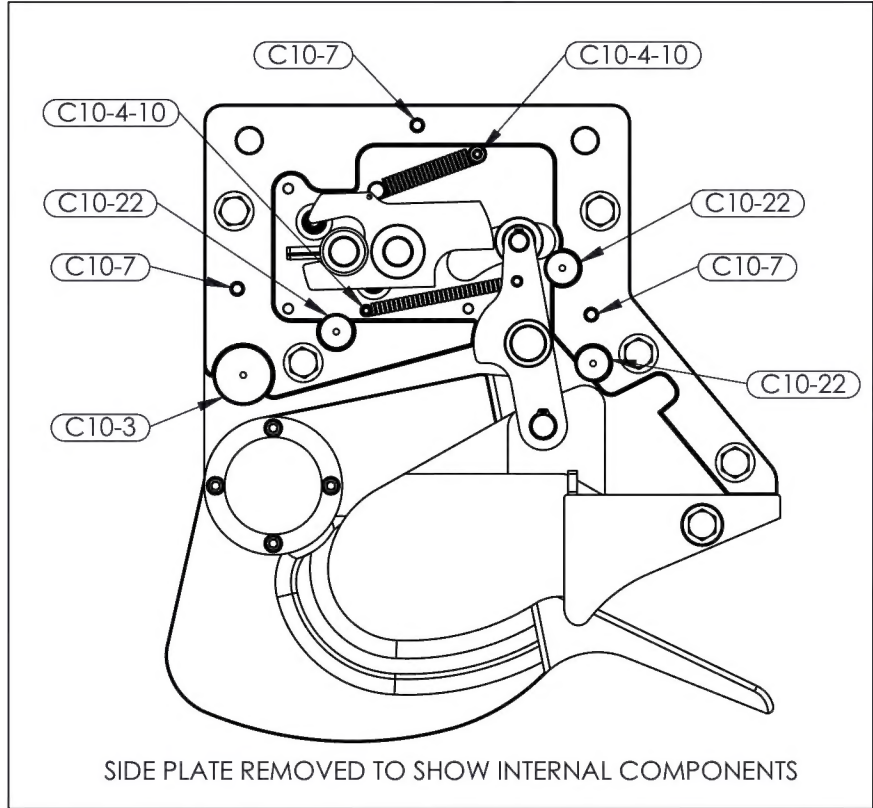


DART AEROSPACE		
TITLE C10 HOOK ASSEMBLY		
DWG NO. C10	REV 3	
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1	DRAWN BY: CANAM APPROVED: D Weil TREAT FINISH SPEC USED ON MODEL	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING		
SCALE 1:4	DATE	SHEET 2 OF 4

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED

SEE ATTACHED DEVIATION



DART AEROSPACE			
TITLE C10 HOOK ASSEMBLY			
DWG NO. C10			REV 3
MAT'L		DRAWN BY: CANAM	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		APPROVED <i>D Weil</i>	
.XXX ± .005		HEAT TREAT	
.XX ± .01		FINISH	
.X ± .1		SPEC	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R		USED ON MODEL	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING			
SCALE 1:4	DATE		SHEET 3 OF 4

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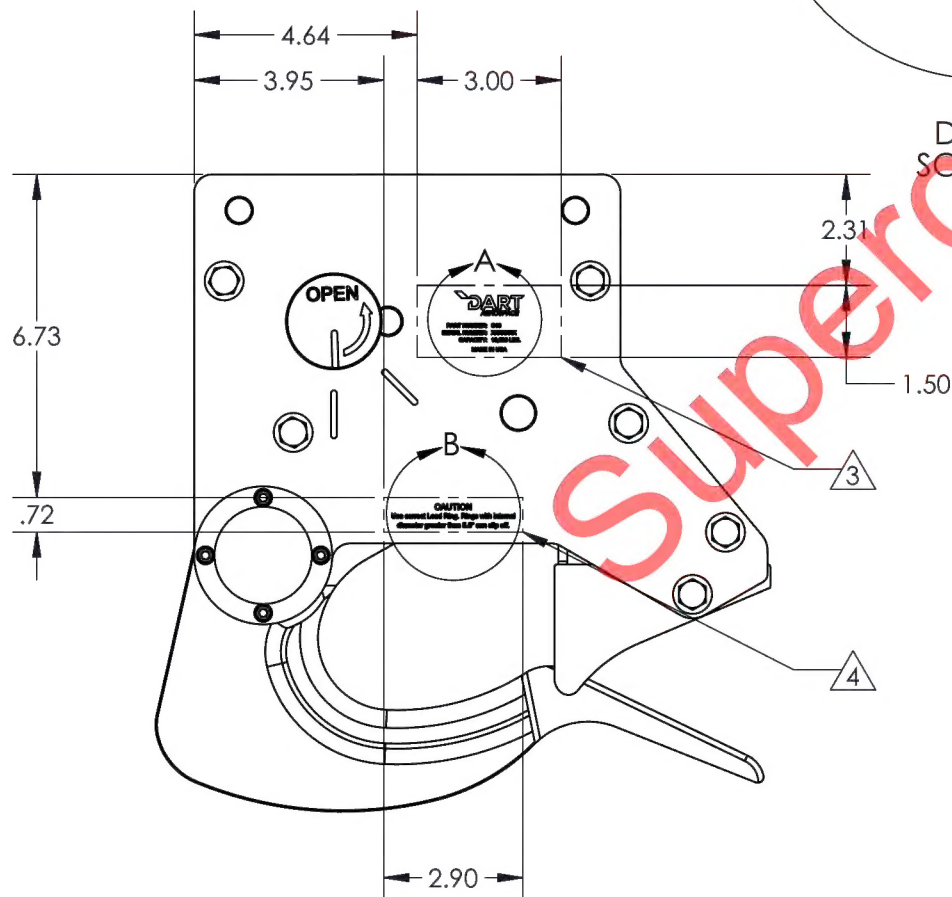
REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	15-0072	ADDED ENGRAVING NOTES AND DETAILS.	3/31/2015	DPD	JAG

SEE ATTACHED DEVIATION



PART NUMBER: C10
SERIAL NUMBER: XXXXXXXX
CAPACITY: 10,000 LBS.
MADE IN USA

CAUTION
Use correct Load Ring. Rings with internal
diameter greater than 5.0" can slip off.



DETAIL A
SCALE 1 : 1

DETAIL B
SCALE 1 : 1

NOTES:

- 3 LASER ENGRAVE DART LOGO, P/N, S/N, "MADE IN USA," WITHIN BOUNDARY.
- 4 LASER ENGRAVE CAUTION NOTE, WITHIN BOUNDARY.

DART AEROSPACE	
TITLE C10 HOOK ASSEMBLY	
DWG NO. C10	REV 3
MAT'L	DRAWN BY: CANAM
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT
.XX ± .01	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
SCALE 1:4	DATE
SHEET 4 OF 4	

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. <u>C SERIES HOOKS</u>	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/>	DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Cross tube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> </div> <div> Eng. (Non-AW) <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Water Jet <input type="checkbox"/> Supplier <input type="checkbox"/> Quality <input type="checkbox"/> </div> </div>			
Date : <u>2019-05-16</u>	Sequence #:	QTY Affected :		MRB (QSJ042) 	
Description Work Order Deviation <u>- SOLENOID COVER DOES NOT FIT FLUSH AGAINST SURFACE OF SIDE PLATE</u> <u>- APPLICABLE TO ALL CARGO HOOKS MODELS</u>		Disposition <u>- IT IS ACCEPTABLE TO USE M304S 18 GA (0.042) STAINLESS SHIM THAT HAS THE SAME PROFILE AS THE SOLENOID COVER GASKET IN ORDER TO ALLOW THE SELENOID COVER TO SIT FLUSH.</u> <u>- INSTALL A N-8090-033 GASKET ON BOTH SIDES OF THE STAINLESS SHIM</u>			Completed By _____ Lead hand / Supervisor _____ QC / QA Coordinator _____
Root Cause <div style="display: flex; flex-direction: column;"> <div>Operator <input type="checkbox"/></div> <div>Manufacturing Process <input type="checkbox"/></div> <div>Equip/Tooling <input type="checkbox"/></div> <div>Handling/Presservation <input type="checkbox"/></div> <div>Material <input type="checkbox"/></div> <div>Product Improvement <input type="checkbox"/></div> <div>Process Improvement <input type="checkbox"/></div> <div>Human Factors <input type="checkbox"/></div> </div>		FAULT CATEGORY <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Bending <input type="checkbox"/> Crushing <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Mislabeled </div> <div style="width: 50%;"> <input type="checkbox"/> Contamination <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Incomplete/Unclear Instructions <input type="checkbox"/> Drill Holes <input type="checkbox"/> Fit/Function </div> <div style="width: 50%;"> <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain Direction <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Off-set/Set-up </div> <div style="width: 50%;"> <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Outside Tolerance <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Misread </div> </div>			
		Other/Details:			